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APPLICATION NO.	APPLICATION NO. FILING DATE FIRST NAMED INVENTO		ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/705,552	705,552 11/11/2003 Kiyosi		09792909-5727	5105		
26263	7590 04/14/2005	EXAM	EXAMINER			
SONNENS	CHEIN NATH & ROS	MULPURI	MULPURI, SAVITRI			
P.O. BOX 0	61080					
WACKER I	DRIVE STATION, SEAF	ART UNIT	PAPER NUMBER			
CHICAGO,	IL 60606-1080	2812				
			DATE MAILED: 04/14/200	DATE MAILED: 04/14/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		- _		Ma	T A				
		Ap	plication	NO.	Applicant(s)				
Office Action Summary		10	0/705,552		HIRATA, KIYOSHI	184.0			
		Ex	aminer		Art Unit				
		Sa	vitri Mulpu	ri	2812				
Period fo	The MAILING DATE of this commun or Reply	nication appears	s on the co	over sheet with the o	correspondence addr	ess			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provision SIX (6) MONTHS from the mailing date of this com period for reply specified above is less than thirty (period for reply is specified above, the maximum s re to reply within the set or extended period for repl reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). munication. 30) days, a reply withi statutory period will app y will, by statute, caus	In no event, in the statutor ply and will ex se the applicat	however, may a reply be tir y minimum of thirty (30) day pire SIX (6) MONTHS from ion to become ABANDONE	nely filed rs will be considered timely. the mailing date of this comi	nunication.			
Status									
1) 又	Responsive to communication(s) fil	ed on 28 Febru	arv 2005.						
·	This action is FINAL . 2b)⊠ This action is non-final.								
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
• • •	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
5)□ 6)⊠ 7)□	Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) 6-20 is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-5 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.								
Applicat	ion Papers								
9)[The specification is objected to by the	he Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.									
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11)	The oath or declaration is objected	to by the Exami	iner. N ote	the attached Office	Action or form PTO	-152.			
Priority (ınder 35 U.S.C. § 119								
a)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation	y documents ha y documents ha s of the priority c onal Bureau (Po	ive been r ive been r document CT Rule 1	eceived eceived in Applicat s have been receive 7.2(a))	ion No ed in this National St	age			
Attachmen	t(s)								
	ee of References Cited (PTO-892)		4)	Interview Summary					
3) Infor	e of Draftsperson's Patent Drawing Review (mation Disclosure Statement(s) (PTO-1449 o er No(s)/Mail Date			Paper No(s)/Mail D Notice of Informal F Other:	ate Patent Application (PTO-1	52)			

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Inagaki (US 6,765246).

Inagaki teaches a method for manufacturing a solid state imaging device comprising the steps of: forming a photo sensor "8"in the surface of a substrate; and forming a channel stop sections as first channel stop region and second channel stop regions "12, 13" on the side of the photo sensor "8" in the substrate by multiple times of the ion implantation5in multiple or equal implantation area either with multiple concentrations or equal ion concentration

With respect to claims 2,4 multiple implantation energies to form channel stop regions 13a, 13b, 13 c with different concentrations (see fig. 6 and related description).

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With respect to claims 3, 5 multiple implantations in the in the equal area and same concentrations see channel stop regions "13" on each side of the photosensitive region (see fig.3 and related description).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Prior art teaches image sensor devices.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Savitri Mulpuri whose telephone number is 571-272-1677. The examiner can normally be reached on Mon-Fri from 8 a.m to 4.30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt, can be reached on 571-272-1873. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Savitri Mulpuri Primary Examiner Art Unit 2812